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PATENT
Attorney Docket No.: 016838-000330US

Assistant Commissioner for Patents
Washington, D.C. 20231

On June 21, 2001

TOWNSEND and TOWNSEND and CREW LLP

By: Connie Larson

jeek
j/a
7/26/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Garold M. Muth

Application No.:

Filed:

For: PUMP SYSTEMS AND METHODS

Art Unit:

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-referenced application, please enter the following amendment.

IN THE CLAIMS:

Please amend the claims as follows (all claims are set forth for convenient reference):

- 1 1. (Amended) A pumping system comprising:
2 a pump barrel that is adapted to be placed into a well casing;
3 a plunger reciprocatably positioned within the pump barrel, wherein the plunger
4 has an open top end with a sharpened edge, a bottom end, and a traveling valve at the bottom
5 end;